The Adjutant General



STATE OF WASHINGTON MILITARY DEPARTMENT

Camp Murray • Tacoma, Washington 98430-5000

RECEI

NOV - 7 1994

November 2, 1994

Mr. Robert Cutler
US Environmental Protection Agency
Washington Operations Office
300 Desmond Drive S.E.
Lacey, Washington 98503

Dear Mr. Cutler:

Enclosed for your review are an Addendum to the Washington National Guard Site Characterization Report, Toppenish Facility, Toppenish, Washington (beneficial use survey) and a Quarterly Progress Report, WNG Toppenish, August 1994.

I will continue to keep you informed as remediation progresses. If you have any questions please contact me at (206) 512-8466.

Sincerely,

Ted Arnold

acceptions

Environmental Program Manager Washington Military Department

Enclosure







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Sincerely,

Ted Arnold

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Environmental Program Manager Washington Military Department

Enclosure





October 26, 1994 Project 626386

Mr. Ted Arnold Washington State Military - Facility Engineering Camp Murray, Building 36 Tacoma, WA 98430

Dear Mr. Arnold:

SUBJECT: QUARTERLY PROGRESS REPORT, WNG TOPPENISH, AUGUST 1994

This report summarizes Burlington Environmental Inc.'s (Burlington) activities at the WNG Toppenish facility during the month of August 1994. Included in this report is a summary of the groundwater monitoring results that was collected in August 1994 and a budget status summary for the project.

Description of Work Completed

The following tasks were completed during this reporting period:

- 1. Previous waste water was disposed.
- 2. Previous soil cuttings were taken to Pasco Landfill and disposed.
- 3. Groundwater samples were collected.
- 4. Soak-ease was installed in MW1, MW-2, MW-3.
- 5. MW-7 well monument was replaced.
- 6. Soak-ease treatment was checked.

Activities and Findings

Five drums of purge water from the previous round of groundwater sampling were disposed on August 23, 1994. The drums were transported to the nearest manhole, and under the supervision of the City of Toppenish, the water was emptied into the sewer.

Burlington Environmental Inc.
Technical Center
P.O. Box 3552 • Seattle, WA 98124-3552
955 Powell Avenue Southwest • Renton, WA 98055
Phone 206/227-0311 • Main FAX 206/227-6191 • Laboratory FAX 206/227-6196



Page 2 Mr. Ted Arnold October 26, 1994

On the same day, approximately 5000 pounds of soil cuttings were transported to the Pasco Landfill at Pasco, Washington, and disposed there.

MW-7. Water was purged from the wells using an ISCO High Volume Peristaltic Pump. Clean polyethylene (PET) tubing was inserted into the well, below the water table, to a point midway in the screen section. The PET tubing was connected to Silicone tubing which goes through the peristaltic pump. The discharge end of the pump was connected to the input valve of the Accuwell 820 Controller.

The Accuwell 820 Controller contains a sensor pack, which measures water quality parameters pH, dissolved oxygen (D.O.), conductivity, temperature, and oxidation-reduction potential (ORP), and a flow meter which measures the amount of water flowing through the controller. Water from the pump flows into the sensor pack, then through the flow meter. Water quality readings are taken automatically every 2 liters and recorded on hard copy by the 820 Controller.

When the D.O. and ORP readings are within 10% for two consecutive readings, the water purging from the well is considered representative and the 820 Controller indicates that the well is ready to sample. The purge water flows directly from the 820 Controller into a 55 gallon drum. Once the well is ready to be sampled, the discharge tube from the peristaltic pump is disconnected from the 820 Controller and the sample jars filled. After each well was sampled, the tubing was discarded and replaced by new tubing for the next well. A summary of the groundwater sample results for all sampling periods is presented in Table 1. Attachment A includes the analytical results package provided by the laboratory for the August 1994 sampling event. The data in Attachment A have been reviewed for quality assurance and have been found to be acceptable for the intended purpose.

Soak-ease product recovery system was installed in wells MW-1, MW-2, MW-3 on August 24, 1994. Each soak-ease was situated such that the mid point of the soak-ease intersected the water table. The only well with visible evidence of product was well MW-3. A sheen was noted on top of the water table.

On August 31, 1994, the well monument for MW-7 was replaced. The soak-ease in the three wells was checked for product. MW-3 was the only well with any product absorbed onto the absorbent pad of the soak-ease. Approximately 3 inches of light brown product was visible at the lower end of the tube. An HNu-PID was used to determine if there was any product on the other two installed soak-ease. A zero reading was indicated for both MW-1 and MW-2.

Page 3 Mr. Ted Arnold October 26, 1994

Recommendations

The soak-ease placed in MW-1 and MW-2 show no sign of floating product in the wells, either visibly or as indicated with the HNu-PID. It is Burlington's recommendation that these two wells be included in the next round of groundwater sampling. The cost for analysis will be an additional \$140.63 per well, with an additional hour in labor per well. This amounts to a cost of approximately \$264.63 per well.

If you have any questions regarding this report please give me a call at (206) 227-6180.

Sincerely,

BURLINGTON ENVIRONMENTAL INC.

Louis S. LaRosa III Project Manager

Attachments: Table 1

Attachment A - Analytical Results

Attachment B - Budget Status Summary

Table 1

TOPPENISH GROUNDWATER SAMPLING ANALYTICAL RESULTS

Well#	Sampling Event	Analytical Results				
		TPH-D	Total Lead	Dissolved Lead		
	mm/yy	mg/l	mg/l	mg/l		
MW-4	Aug-92	0.79	0.1	< 0.005		
MW-4	Aug-94	ND	0.003	ND		
MW-4-W2D*	Aug-94	ND	ND	ND		
MW-5	Aug-92	1.00	0.29	< 0.005		
MW-5	Aug-94	ND	0.005	ND		
MW-6	Aug-92	0.62	0.13	<0.005		
MW-6	Aug-94	0.31	ND	ND		
) (III -	RECKER SECTION					
MW-7	Aug-92	0.62	0.012	< 0.005		
MW-7	Aug-94	ND	ND	ND		

^{*} Indicates duplicate collected



MEMORANDUM

DATE:

October 23, 1994

Project 626386

TO:

David Broten

FROM:

Kathy Blaine

SUBJECT:

Analytical Data QA Review

I have completed a review of the analytical data for five water samples collected on 8/24/94 and listed on COC # 8256. The samples were analyzed for the Washington State TPH method, total lead, and dissolved lead by Sound Analytical. The data evaluation was conducted in accordance with the USEPA Data Validation Functional Guidelines and the method specific Quality Control (QC) criteria. The items that were assessed included method blanks, matrix spike/matrix spike duplicate (MS/MSD) information, and holding times.

No deviations from the accepted QC criteria were noted. All data as reported by the laboratory is considered valid and usable. If you have any questions, or need additional information, please feel free to contact me.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACHTC HIGHWAY FAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

TRANSMITTAL MEMORANDUM

DATE: September 1, 1994

TO: David Broten

Burlington Environmental Technical Services

PROJECT: Toppenish WNG

P. O. No. 44982

LABORATORY NUMBER: 42715

Enclosed are the original and one copy of the Tier II data deliverables package for Laboratory Work Order Number 42715. Five samples were received for analysis at Sound Analytical Services, Inc., on August 25, 1994.

Should there be any questions regarding this data package, please do not hesitate to call me at (206) 922-2310.

Sincerely,

Lila A. Transue
Project Manager

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inc. ... an it sis in accordance with

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS 4813 PACIFIC HIGHWAY FAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Burlington Environmental Date: September 1, 1994

Technical Services

Report On: Analysis of Water

Lab No.: 42715

IDENTIFICATION:

Samples received on 08-25-94

Project: Toppenish WNG

ANALYSIS:

Lab Sample No. 42715-1

Client ID: MW-6-W2

WTPH-D

Date Extracted: 8-31-94

Date Analyzed: 8-31-94

Units: mg/L

Parameter Result

POL Flag

Diesel

0.31

0.25

(> (12 - (24)

SURROGATE RECOVERY, %

o-terphenyl

65

Total ICP Metals Per EPA Method 200.8 Date Analyzed: 8-29-94

Units: mg/L

Parameter

Result

POL

Lead

ND

0.003

Dissolved ICP Metals Per EPA Method 200.8 Date Analyzed: 8-29-94

Units: mg/L

Parameter

Result

POL

Lead

ND

0.003

ND - Not Detected PQL - Practical Quantitation Limit

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Burlington Environmental Technical Services

Project: Toppenish WNG

Lab No. 42715

September 1, 1994

Lab Sample No. 42715-2

Client ID: MW-5-W2

WTPH-D

Date Extracted: 8-31-94
Date Analyzed: 8-31-94

Units: mg/L

Parameter Result POL Flag

Diesel ND 0.25

(> (12 - (24)

SURROGATE RECOVERY, %

o-terphenyl

Total ICP Metals Per EPA Method 200.8 Date Analyzed: 8-29-94

88

Units: mg/L

<u>Parameter</u> <u>Result</u> <u>POL</u>

Lead 0.005 0.003

Dissolved ICP Metals Per EPA Method 200.8

Date Analyzed: 8-29-94 Units: mg/L

<u>Parameter</u> <u>Result</u> <u>POL</u>

Lead ND 0.003

ND - Not Detected

PQL - Practical Quantitation Limit

Burlington Environmental Technical Services Project: Toppenish WNG

Lab No. 42715 September 1, 1994

Lab Sample No. 42715-3

Client ID: MW-4-W2

WTPH-D

Date Extracted: 8-31-94 Date Analyzed: 9-1-94

Units: mg/L

POL Flaq Parameter Result

0.25 ND Diesel

(> C12 - C24)

SURROGATE RECOVERY, % 77 o-terphenyl

> Total ICP Metals Per EPA Method 200.8 Date Analyzed: 8-29-94

Units: mg/L

POL Parameter Result

0.003 0.003 Lead

Dissolved ICP Metals Per EPA Method 200.8

Date Analyzed: 8-29-94 Units: mg/L

Parameter Result PQL

0.003 Lead ND

ND - Not Detected

PQL - Practical Quantitation Limit

Burlington Environmental Technical Services

Project: Toppenish WNG

Lab No. 42715 September 1, 1994

Lab Sample No. 42715-4

Client ID: MW-4-W2D

WTPH-D

Date Extracted: 8-31-94
Date Analyzed: 9-1-94

Units: mg/L

Parameter Result PQL Flag

Diesel ND 0.25

(> C12 - C24)

SURROGATE RECOVERY, % o-terphenyl 76

Total ICP Metals Per EPA Method 200.8 Date Analyzed: 8-29-94 Units: mg/L

<u>Parameter</u> <u>Result</u> <u>POL</u>

Lead ND 0.003

Dissolved ICP Metals Per EPA Method 200.8 Date Analyzed: 8-29-94

Units: mg/L

<u>Parameter</u> <u>Result</u> <u>POL</u>

Lead ND 0.003

ND - Not Detected PQL - Practical Quantitation Limit

Burlington Environmental Technical Services

Project: Toppenish WNG

Lab No. 42715

September 1, 1994

Lab Sample No. 42715-5

Client ID: MW-7-W2

WTPH-D

Date Extracted: 8-31-94

Date Analyzed: 9-1-94

Units: mg/L

Parameter Result PQL Flag ND 0.25 Diesel (> C12 - C24)

SURROGATE RECOVERY, % o-terphenyl

64

Total ICP Metals Per EPA Method 200.8 Date Analyzed: 8-29-94 Units: mg/L

Parameter Result POL Lead ND 0.003

> Dissolved ICP Metals Per EPA Method 200.8 Date Analyzed: 8-29-94 Units: mg/L

Parameter Result POL Lead ND 0.003

ND - Not Detected PQL - Practical Quantitation Limit

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SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY FAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

WTPH-D (Diesel Range Organics)

Client: Burlington Environmental Technical Services

Lab No: 42715qc1

Units: mg/L

Date Extracted: 8-31-94 Date Analyzed: 8-31-94

METHOD BLANK

Blank No. 046R0201.D

Parameter	Result	PQL
Diesel	ND	0.25
SURROGATE RECOVERY% o-terphenyl	76	

ND = Not Detected

PQL = Practical Quantitation Limit

BLANK SPIKE

BS No. 047R0201.D

Parameter	BS	BS	BS
	Result	Amount	%R
Diesel	297	502	59

report is issued solely for the use of the person or company to whom it is nedlessed for the second of the person or company to whom it is nedlessed for the second of the person of the second of the person of the second of the person of the second of the

%R = Percent Recovery

BS = Blank Spike

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACTIFIC HIGHWAY IFAST, TACOMA, WASHINGTON 98424 - TIELEPHONE (206)922-2310 - PAX (206)922-5047

QUALITY CONTROL REPORT

Total Lead

Client: Burlington Environmental Technical Services

Lab No: 42715qc2 Units: mg/L

Date Analyzed: 8-29-94

METHOD BLANK

Parameter	Result	PQL
Lead	ND	0.003

ND = Not Detected

PQL = Practical Quantitation Limit

DUPLICATE

Du	o i	VO	4	27	71	5	-1

Parameter	Sample	Duplicate	RPD
Lead	ND	ND	NC

RPD = Relative Percent Difference

NC = Not Calculated

MATRIX SPIKE

MS No. 42715-1				1
Parameter	Sample Result	Spiked Sample Result	Spike Added	%R
Lead	ND	0.076	0.10	76

Lead to be read to be partied as the part of company to whom it is addressed. This is notice if necessary and state and provide the parties of the company to whom it is addressed. This is notice if necessary and the practice in no exent shall Sound Analytical Services. Inc. or its employees be responsible for consequential or special discourse. By the top in the company of the practice in no exent shall Sound Analytical Services. Inc. or its employees be responsible for consequential or special discourse. By the top in the continuous

%R = Percent Recovery

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACTITIC HIGHWAY FAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

Dissolved Lead

Client: Burlington Environmental Technical Services

Lab No: 42715qc3

Units: mg/L

Date Analyzed: 8-29-94

METHOD BLANK

Parameter	Result	PQL
Lead	ND	0.003

ND = Not Detected

PQL = Practical Quantitation Limit

BURLINGTON ENVIRONMENTAL

10 Most Sand Bank Hoad 10 Box 230 CHAIN-OF-CUSTODY RECORD 8256 ohimbio, IL 62236-0250 C.O.C. SERIAL NO. . 101 984 , 173 48 281-5120 FAX PHOJECT NAME LUNG ANALYSIS PRESER-MAJOR TASK 2030, 77 PROJECT NUMBER VATIVES NO. OF CONTAINERS SAMPLERS CHEMICALS REMARKS JAND'S DUALICH (CHEMICAL ANALYSIS REQUEST SWC? FORM NUMBER IF APPLICABLE) , ...AMPT 11/1 THAE SAMPLE LOCATION 11. mul (11) 3 3 3 mul 4- W2D () 3 MLU-7 - W.7 1 ms/ms) RELINQUISHED BY RECEIVED BY SIGNATURE DATE TIME SIGNATURE DATE TIME SHIPPING NOTES P.O. # 44982 LAB NOTES 10 scaled w/ 8:30 on 8:2594

BE-34 (1/93)

Attachment B
Budget Status Summary

	September	October	Total	Percent
Phase	Invoice	Invoice	Invoiced	Complete
2010 - First Qtr. Sampling	\$2,734.52	\$849.27	\$3,583.79	100%
2020 - Maintenance	\$0.00	\$1,000.00	\$1,000.00	100%
2030 - Qrtly. Sampling	\$0.00	\$0.00	\$0.00	0%
2040 - Analytical	\$0.00	\$562.50	\$562.50	25%
2050 - Beneficial Use Study	\$0.00	\$0.00	\$0.00	0%
2060 - Qrtly. Prog. Rpt.	\$0.00	\$0.00	\$0.00	0%
2070 - Final Rpt.	\$0.00	\$0.00	\$0.00	0%
2080 - Previous Waste Disposal	\$1,998.19	\$639.17	\$2,637.36	100%
2090 - New Waste Disposal	\$0.00	\$0.00	\$0.00	0%
Total Invoice	\$4,732.71	\$3,050.94		

ADDENDUM TO WASHINGTON NATIONAL GUARD SITE CHARACTERIZATION REPORT TOPPENISH FACILITY TOPPENISH, WASHINGTON

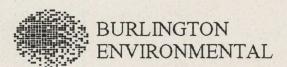
October 1994

Prepared for:

Washington State National Guard Tacoma, Washington

Project # 626386

Prepared by:



TECHNICAL SERVICES DIVISION P.O. Box 3552 Seattle, Washington 98124-3552 (206) 227-0311 Per Washington Administrative Code (WAC) 173-340-450 a beneficial use of groundwater survey was conducted for the Washington National Guard (WNG) Toppenish Facility. Five subjects were included in this survey: information on nearby wells, surface and groundwater quality, local land use and potential pathways for contaminated water and free product migration

Information on nearby wells was obtained from the Central District office of the Washington State Department of Ecology (Ecology) in Yakima. A search of all well logs on file in sections 2,3,10 and 11 of Township 10 North, Range 20 East was conducted. The closest wells to the site are located in the northwest quarter of the northeast quarter of section 10 of Township 10 North, Range 20 East. These wells consist of a group of 3 wells categorized as industrial and located at the Del Monte Plant 122, and a test well located at Western Farm. These four wells are approximately 1300 feet east of the WNG Toppenish facility. With a groundwater flow direction to the northwest identified in the Limited Site Characterization Report this would place these wells in a cross-gradient relationship with the Toppenish facility. The nearest identified well downgradient of the facility is a test well installed at the school bus yard at the corner of Franklin Avenue and Fir Street in 1991. This well is approximately 3800 feet to the north-northwest of the facility. Ecology records indicate that no domestic water wells are present downgradient of the facility in this search area. Copies of all well logs obtained from Ecology are attached to this report.

The nearest surface water body to the Toppenish facility is an irrigation flume located approximately 2000 feet to the south. Given its location relative to the facility, impact to this irrigation flume from the UST release would not be expected.

Groundwater quality at the site is impacted by the presence of dissolved petroleum hydrocarbons in the upper section of the aquifer. Free product has also been found at the site and is currently being remediated. WNG has instituted a quarterly monitoring system for the wells onsite. Four quarters of data will be collected from these wells to monitor the extent of the dissolved contaminant and the status of the free product removal effort.

Local land use around the Toppenish facility consists of mixed residential, industrial. The facility is located within the city limits of Toppenish.

Potential conduits for the migration of free product and contaminated water consist of movement through the porous sands and gravels beneath the facility. This movement will be with the groundwater flow identified in the Limited Site Characterization Report. No preferential pathways have been identified such as storm sewers or other utility ways.

File Original and First Copy with Department of Ecology Second Copy—Owner's Copy Third Copy—Driller's Copy

-

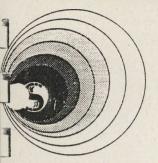
WATER WELL REPORT

STATE OF WASHINGTON

Water Right Permit No.

Start Card No. U8601/

(1)	OWNER: Name Judy Hughs	Address 751 Old McCoy Rd., Toppenish
	LOCATION OF WELL: County Yakima	NE % NE % Sec 2 T. 10 N., R20 W.M.
	STREET ADDDRESS OF WELL (or nearest address) 751	Old McCoy Rd., Toppenish, WA 98948
		(10) WELL LOG OF ABANDONMENT PROCEDURE DESCRIPTION
(3)	PRCPOSED USE: X Domestic Industrial Municipal Municipal Test Well Other	Formation: Describe by color, character, size of material and structure, and show
kar	TYPE OF WORK: Owner's number of well	thickness of aquifers and the kind and nature of the material in each stratum penetrated with at least one entry for each change of information.
-,		MATERIAL FROM TO
	Deepened Cable Driven	Topsoil 0 8
	Reconditioned Rotary X Jetted	Brown Clay, Sand, & Large & Small 8 14
(5)	DIMENSIONS: Diameter of well 6 inches.	Gravel
	Drilled 50 feet. Depth of completed well 50 ft.	Brown Clay, Large & Small Gravel, 14 50 Water & Sand
(6)	CONSTRUCTION DETAILS:	Water a Sand
,	Casing installed: 6 · Diam. from +1 ft. to 50 ft.	
	Weided X Diam, from ft. to ft.	
	Liner installed	
	Perforations: Yes No X	
13.25	Type of perforator used	
	SIZE of perforations in. by in.	
	perforations fromft. toft.	
	perforations fromtt. tott.	
	perforations fromft. toft.	
	Screens: Yes No X	
	Manufacturer's Name	
	Type Model No	
	Diam. Slot size from ft. to ft.	
	Diam. Slot size from ft. to ft.	
	Gravel packed: Yes NoX Size of gravel	
_	Gravel placed from tt. to tt.	
	Surface seal: Yes No To what depth? 18 ft. Material used in seal Bentonite Clay	
	Did any strata contain unusable water? Yes No	
	Type of water?Depth of strata	
'	Method of sealing strata off	
(7)	PUMP: Manufacturer's Name	
	Туре:	
(0)	WATER LEVELC. Land-surface elevation	
(8)	Static level 10 tt. below top of well Date 4/22/92	
	Artesian pressure!bs. per square inch_Date	
1	Artesian water is controlled by(Cap, valve, etc.))	
-		Work started 4/21/92 19. Completed 4/22/92 19
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? Yes No If yes, by whom?	WELL CONSTRUCTOR CERTIFICATION:
	Yield: gal./min. with tt. drawdown after hrs.	I constructed and/or accept responsibility for construction of this we
		and its compliance with all Washington well construction standard
1		Materials used and the information reported above are true to my best knowledge and belief.
	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	Water Wells Drilling, Inc.
	Time Water Level Time Water Level Time Water Level	
1-		NAME (PERSON FIRST OF CORPORATION) (TYPE OR PRINT) YEKIME WA 98903
]		Address
	Date of test	() (1) ()
1		(Signed) License No. 1435
	Bailer test gai. min. with ft drawdown after hrs.	Contractor's
	Airtest 75 gal min with stem set at50 ft. for 1 hrs.	Registration No. WATERWD112QB Date 4/23/92 19
	Artesian flow g.p.m. Date4/22/92	
1	Temperature of water 58° Was a chemical analysis made? Yes NoX.:	(USE ADDITIONAL SHEETS IF NECESSARY)



SCALE: 1" = __

SOIL SAMPLING SERVICE, INC.

1415 MERIDIAN EAST, PUYALLUP, WA 98371-1399

FEDERAL ID #: 91-0762274

WA CONT. #SOIL SS*344LO

(206) 927-3173 TELEX: 466762 FAX: (206) 927-3478

PAGE _____ OF ___

Geotechnical, Engineering & Mineral Exploration Drilling • Instrumentation • Horizontal Drains
Ground Water Monitoring • Hazardous Waste Identification • Well Abandonments

RESOURCE PROTECTION WELL REPORT

PROJECT NAME: School Bus Gard WELL IDENTIFICATION NO.: MW-1,2 DRILLING METHOD: Cir Rotary DRILLER: Harold Discarder SIGNATURE: Harold Miscarder CONSULTING FIRM: SAIC REPRESENTATIVE: Barbara Black		JOB #: W 2959 START CARD NO.: 062474 COUNTY: Yakima CITY: Toppenish LOCATION: NJ 1/4 SW 1/4 SEC.: 3 TOWN: LON RANGE: 2C IS DATUM: WATER LEVEL ELEVATION: INSTALLED: Y-19-91 DEVELOPED:
WELL DATA	AS BUILT	FORMATION DESCRIPTION
Colorado Sand	Auxz. Auxlox.olo	5 ands Gravels
75		

Secon	d Copy — Owner's Copy Copy — Briller's Copy STATE OF W.			Permit No		
(1)	OWNER: Name Scurrence + Kith German	Address 304 47	C.F. S	T-Joon	mich	The in
	LOCATION OF WELL: County 2 and distance from section or subdivision corner					
	PROPOSED USE: Domestic ' Industrial Municipal	(10) WELL LOG:				
_	Irrigation ☑ Test Well □ Other □	Formation: Describe by show thickness of aquife stratum penetrated, with	ers and the kin	d and nature of t	ne material	in each
-(4)	TYPE OF WORK: Owner's number of well (if more than one)		ATERIAL		FROM	ТО
1	New well Method: Dug Bored Deepened Cable Driven Reconditioned Rotary Jetted					
(5)	DIMENSIONS: Diameter of well inches. Drilled ft. Depth of completed well ft.					
(6)	CONSTRUCTION DETAILS:					
1	Casing installed: " Diam. from					
7	Perforations: Yes No No Type of perforator used in. by in.					
	perforations from ft. to ft ft ft.		*			
1	perforations from	D	CCC	7		
-	Screens: Yes No No No	11	- 7	7 6		
7	Type			U71		
7	Diam. Slot size from ft. to ft. Diam. Slot size from ft. to ft.		10	E FONCON		
]	Gravel placed fromft. toft.		. 1 0	AI CE		
38	Surface seal: Yes No No To what depth? ft.					
]	Material used in seal Did any strata contain unusable water? Yes No Type of water? Depth of strata					
29_	Method of sealing strata off					
	PUMP: Manufacturer's Name Discourse HP 17					
8)	WATER LEVELS: Land-surface elevation above mean sea level					
	ic levelft. below top of well Date.					
7	Artesian water is controlled by(Cap, valve, etc.)					
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level?	Work started	, 19	Completed		, 19
1985	s a pump test made? Yes No If yes, by whom? What it was a lid: gal./min. with ft. drawdown after hrs.	WELL DRILLER	'S STATE	MENT:		
		This well was dr true to the best of	rilled under i my knowled	ny jurisdiction ge and belief.	and this	report is
	overy data (time taken as zero when pump turned off) (water level measured from well top to water level) ime Water Level Time Water Level Time Water Level		son, arm, or co	orporation)	(Type or pr	rint)
7		Address.	6 10	the ?	-, /C C'	L
1	e of test	[Signed]	1 12.1	1-1-1	Treta	j
- Eur	er test gal./min. with ft. drawdown after hrs.			(Well Driller)		
	nperature of water	License No		Date		, 19

FILL OF

Court . Dealers

WALLINGTON

The state of the s

Erm Date

Date of test

Address

(Signed: . (Wall Driller)

Licavo Na

PURIORAL STREETS IN MECHANICA



Y	#1-		ELL REPORT WASHINGTON	(5)	Application Permit N	300	0563
DEL	MONTE	CORPORATION	Address P. O.	Box 71,	Toppenish.	Wash.	98948

(1		Address P. O. Box / I. Toppenish, Was		
1	LOCATION OF WELL: County Yakılla	NW 14 NE 14 Sec 10 T 10		
_	aring and distance from section or subdivision corner 220' East &	1150' South of North Quarter Corne	r Sec	10
-	aring and distance from section of section	(10) WELL LOG:		
_(3) PROPOSED USE: Domestic Industrial Municipal			tues and
1	Irrigation Test Well Other	Formation: Describe by color, character, size of material show thickness of aquifers and the kind and nature of the	e materia	il in each
J-	TYPE OF WORK Owner's number of well 2	stratum penetratea, with at least one entry for each the	artye of fr	
(4	(if more than one)		PROM	TO
1	New well Method: Dug Bored Depended Cable Driven	Top Soil	0	5'
	Deepened Cable Driven Reconditioned Rotary Jetted	Gravel	5	121
_	14	Cement Gravel	12	29'
. (5	DIMENSIONS: Diameter of well 14 inches. Drilled 14 inches. Depth of completed well 238 ft.	Boulder & Water	29'	31'
1	Drilled ft. Depth of completed well 238 ft.	Cement Gravel	31'	52'
1-		Loose Gravel & Water	52'	53
(6	CONSTRUCTION DETAILS:	Cement Gravel	53'	57
1	Casing installed: 14 "Diam. from 0 ft. to 105 ft. Threaded 10 "Diam. from 100 ft. to 218 ft.	Loose Gravel & Water	57'	58'
1	Threaded Diam. from 100 ft. to 218 ft.	Cement Gravel	58'	67'
	Welded Diam. from ft. to ft.	Loose Gravel & Water	67'	68'
,	Perferetions: N. C	Muddy Gravel	68'	73'
1	Perforations: yes No 🗆	Yellow Clay	73'	78'
7	Type of perforation used 3/8 2 in. by 2 in. 12 Perforations from 50 in. by 218 ft.	Loose Gravel & Water	78'	87
	12" Per Ft perforations from 50 ft. to 218 ft.	Cement Gravel	87	88'
1	perforations from ft. to ft.	Loose Gravel & Water	88	97'
1	perforations from ft. to ft.	Muddy Gravel	97	1111
	S	Cement Gravel	111	120'
7	Screens: Yes No 🛱	Loose Gravel & Water	120'	121
-	Manufacturer's Name	Cement Gravel	121	142
-	Diam. Slot size from ft. to ft.	Loose Gravel & Water	142'	144'
	Diam. Slot size from ft. to it.	Cement Gravel	144'	160'
1	July Unknown		160'	161'
1	Gravel packed: Yes ⋈ No □ Size of gravel: Unknown	Loose Gravel & Water	161'	180'
	Gravel placed from ft. to ft.	Shale & Gray Gravel	180'	187'
7	Surface seal: Yes No To what depth? ft.	Loose Gravel, Sand, Water	187'	206'
1	Material used in seal	Shale & Gray=Grave	206'	208'
	Did any strata contain unusable water? Yes \(\) No \(\)	Yellow Clay	208	213'
-	Type of water? Depth of strata	Shale & Gray Gravel	213'	218'
1	Method of sealing strata off	Pea Gravel & Water		238'
1	7) PUMP: Manufacturer's Name Kimball Krogh Pump	Yellow Clay	218'	230
'	Туре: 8" нр 75			
7-				
1(8) WATER LEVELS: Land-surface elevation above mean sea level ft.			-
S	tatic levelft. below top of well Date			
A	rtesian pressure None lbs. per square inch Date			
1	Artesian water is controlled by (Cap, valve, etc.)	UEMARA		
_	O) WELL TESTS. Drawdown is amount water level is		25	12
_ (9) WELL IESTS. lowered below static level	Work started 3-21 1942 Completed 3.	- 25	19.42
V	Vas a pump test made? Yes ♥ No ☐ If yes, by whom?	WELL DRILLER'S STATEMENT:		
4 Y	field: 700 gal./min. with 20 ft. drawdown after 24 hrs.		,	
_	"	This well was drilled under my jurisdiction true to the best of my knowledge and belief.	and this	report is
7 -		tide to the best of my knowledge and best		
F	decovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	Well Driller Deceased		
	Time Water Level Time Water Level Time Water Level	NAME. (Person, Arm, or corporation): (')	Type or I	orint)
7				
-		Address		
desta				
	Date of test	[Signed]		
E	Bailer test gal/min. with ft. drawdown after hrs.	(Well Driller)		
4	rtesian flow g.p.m. Date No C	License No		, 19
3	Temperature of water			
7		WHERE IE NECESSARVI		
	(USE ADDITIONAL S.	HEETS IF NECESSARY)		



		-1	0	0			
Start	Card	No.	1	03	64	1	5

epar eco:	riginal and First Copy with the thent of Ecology and Copy—Owner's Copy Copy—Oriller's Copy STATE OF Y	LL REPORT Start Card No. 030413 VASHINGYON Water Sight Parmit No.	
	OWNER: Name Del Monte Plant #122	Accress E. 3rd. Ave., Toppenish	
2)	LOCATION OF WELL: County Yakima STREET ADDDRESS OF WELL (or nearest address), E. 3rd. Av	NW NE % sec 10 t10 N. R 20	_W.M.
	The second secon		TION
3)	PROPOSED USE: ☐ Domestic Industrial ※ Municipal ☐ DeWater Test Well ☐ Other ☐	(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION Formation: Describe by color, character, size of material and structure, and thickness of aquifers and the kind and nature of the material in each stratum pene	show
4)	TYPE OF WORK: (if more than one)	with at least one entry for each change of information. MATERIAL FROM TO	0
	Abandoned New well Method: Dug Bored Cable Driven Reconditioned Reconditioned Reconditioned Dug Driven Jetted New well Rotary Dug Driven Driven Rotary Dug Driven	MATERIAL PROMI	
5)	DIMENSIONS: Diameter of weil 10 inches.	Installed 10" casing	
	Drilled 0 feet. Depth of completed well 213 ft.	down to existing 10" casing	
6)	CONSTRUCTION DETAILS:	with a collar on the 10" pipe. Than sealed around	
	Casing installed: 10 · Diam. from 0 ft. to 99 ft.	the 10" with bentonite.	
	Welded * Diam. fromft. toft. Liner installed * Diam. fromft. toft.		
1	Perforations: Yes No X		
	Type of perforator used		
	SIZE of perforations in. by in in ft. to ft. to ft.	(#1 Well)	
	perforations fromft. toft.	(#L	
	perforations fromft. toft.		
	Screens: Yes No V		
	Manufacturer's Name		
	Type		1
	Diam. Slot size from ft. to ft.		
	Gravel packed: Yes No X Size of gravel		
	Gravel placed from ft. to ft.	18 C I W 2	
	Surface seal: Yes X No To what depth? 99 tt.	E 0 E 1 1 15	
	Material used in seal Bentonite		
	Did any strata contain unusable water? Yes X No		
	Type of water?		
1)	PUMP: Manufacturer's Name		
	Type: H.P. Land-surface elevation		
8)	WATER LEVELS: Land-surface elevation above mean sea level		
	Artesian pressure		
	Artesian water is controlled by(Cap, valve, etc.))	2 2 00	00
9)	WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 2-3-90 19. Completed 2-4 1	90
	Was a pump test made? Yes No X If yes, by whom?	WELL CONSTRUCTOR CERTIFICATION:	
	Yield:gal./min. withft. drawdown afterhrs.	I constructed and/or accept responsibility for construction of this and its compliance with all Washington well construction stand	
	0 0 0	Materials used and the information reported above are true to my	
	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	knowledge and belief.	
	Time Water Level Time Water Level Time Water Level	NAME Water Wells Drilling INC. (PERSON. FIRM. OR CORPORATION) (TYPE OR PRI	NIT?
		[12] [12] [12] [13] [14] [15] [15] [15] [15] [15] [15] [15] [15	
		Address 5503 Ahtanum Rd.; Yakima 9890	3
	Date of test	(Signed) Linear J. Kanklicense No. 1435	
	Bailer test gal./min. with ft, drawdown after hrs.	(Signed) (WELL DRILLER) Contractor's	
	Bailer test gal./min. with ft, drawdown after hrs. Airtest gal./min. with stem set at ft. for hrs.	Registration WD112QB Date 2-7	9_90
	Artesian now g.p.in. Date		
	Temperature of water Was a chemical analysis made? Yes No X	(USE ADDITIONAL SHEETS IF NECESSARY)	

File Original and First Copy with Department of Ecology Second Copy-Owner's Copy

- A 3

CY 050-1-20 (10/87) -1329-

Third Copy-Driller's Copy

WATER WELL REPORT

WASHINGTON

Start Card No.

Water Right Permit No. Address 405.51 OWNER: Name WEXTERN FARM E STREET TOPPENISM T 10 N. R 20 WM LOCATION OF WELL: County VAKIMA (2a) STREET ADDDRESS OF WELL (or nearest address). Domestic (10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION PROPOSED USE: Municipal Industrial [(3) Irrigation Test Well Other DeWater Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. TYPE OF WORK: Owner's number of well MATERIAL Bored Driven Abandoned GRAXI SANISTUPSOIL CORRIES Cable Rotary Z Jetted ANDY (5) DIMENSIONS: Diameter of well_ SAND __feet. Depth of completed well__ DARY FS MI (6) CONSTRUCTION DETAILS: ms Diam. from___ Casing installed: ___ Diam. from___ ft. to Liner installed Threaded Diam. from_ Perforations: Yes Type of perforator used _ SIZE of perforations _ ___ in, by _ tt. to __ perforations from _ perforations from _ Screens: Yes NoL Manufacturer's Name HYDROPHELIC Puc Model No. _Slot size_ · /) Gravel packed: Yes No Size of gravel Gravel placed from_ No To what depth?_ Surface seal: Yes Material used in seal 2 ntonite Council Did any strata contain unusable water? Yes Type of water?____ _Depth of strata Method of sealing strata off _ PUMP: Manufacturer's Name Type:____ Static level 10 10 10 (8) __ ft. below top of well Date 3 __ lbs. per square inch Date Artesian pressure _ Artesian water is controlled by ___ (Cap. valve, etc.)) 90 19. Completed Work started_ WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? Yes No No If yes, by whom? WELL CONSTRUCTOR CERTIFICATION: Yield: gal./min. with _ __ ft. drawdown after _ I constructed and/or accept responsibility for construction of this well. and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief. Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) (PERSON, FIRM, OR CORPORATION) (TYPE Water Level Date of test_ License No. (Signed) (WELL DRILLER) Bailer test _____ gal./min. with _____ ft. drawdown after _ Contractor's Registration /3221 _ gal./min. with stem set at _ ft for _ Date_ _____ g.p.m. Date _ Artesian flow ___ Temperature of water _____ Was a chemical analysis made? Yes ___ No X (USE ADDITIONAL SHEETS IF NECESSARY)

			1.16.7
CTADT	COD	110	046735
SIMMI	CARD	INO.	-101

PROJECT NAME: TOPEN, Sh N'4 PELL INDENTIFICATION NO. MU LLING METHOD: HSA. 4.) PRILLER: JOHN W No Can IRM: Buil, we must find the signature: SIGNATURE: John W No Can ONSULTING FIRM: B. T. T. HEPRESENTATIVE: K. Tangh	LOCATION: TO DISTANCE: 1777 DATUM:	FT. FROM E/W SECTION LINE
AS-BUILT	WELL DATA	FORMATION DESCRIPTION
hel-plag To 1.51		CI-15" asphally agravely
5 - 10-10 selica sanci re Ens		15" - 18 1 Brown clay, some Fine To Machine soul 2 gravel. 8'-12 Brown selly Fine 10 Contre squely gravel 12-15:5 Brown Fine 10 Contre squely, Some Fine To course Send, Trace of silet.
] 20-	2"pucereicoga Retaun pt 15.5"	
	, 411 and 4-1 6 3 . 5	The Control of the Co

ALE: 1"= _____ OF ____

ECY 050 12

START CARD NOC 46935

COJECT NAME: JCAPEN, SI, NATE LI INDENTIFICATION NO. 27 LING METHOD: 14 S. AT VILLER: John W. Dolars RM: B. T. T. GNATURE: John 12 NSULTING FIRM: B. T. PRESENTATIVE: T. T.	LOCATION: TO DISTANCE: DATUM: WATER LEVE INSTALLED:	FT. FROM N/S SECTION LINE FT. FROM E/W SECTION LINE EL ELEVATION: S-12-92 4-13-92
AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	Husti Mount	ELEVATION TO TO POFICE 99:30
holaplas To 1	21/x 8 / puc niser	Brown clay stor, some Five sovel. 5-9 Brown SIT, + Five
10-20 Savel 76 6'	Situation	7-20 Brown Five TO Course gravel, Five Focus Surel, France Focus Surel, Traceor
	d'x 101	5.67.
PO-Boi	10 n 7 1 18'	

PAGE ____ OF ____

CY 050-12

ALE: 1"=_

START CARD NOC 46 535

ROJECT NAME: 1017-2015 Num		LOCATION: T	100 a 200	SEC. 16	
LING METHOD: 15-5 4		DISTANCE:		T. FROM N/S SECTIO	NAL L IAI
RILLER: John W Nota.	V	DISTANCE.			
RM: REI		DATUM:		T. FROM E/W SECTION	און אונ
	in II)>>		L ELEVATION		
DISULTING FIRM: BFI.			8-12-9		
EPRESENTATIVE: K. TAhch	'shi		8-13-		
AS-BUILT	WELL DATA		FORM	ATION DESCRIPTION	
					T
					i
					. 1
	MONEYEST				i
0	Flugh Mouri More 42 VI		Fliveri	ou 99.55'	1
holuples To I	211 Locking Caps	7	0-15 asphall	73/116	1
	211X> pic ziser 7				-
5 silica surce((10-10) 705.	-1		· S - G Bre	Esand Soul Fin	<
Top of science 7.5'					-
1,012.00					!
			1 10	own Five Meause	1
	- 1		6-20 81	and trace	
10 -	Screen -		50.00 x	Caifficult Track	+
	Scheen -				1
					1
					1 90
15-	-	}			-
					T
	2" puc Eciloup				i
					1
20 -	2				1
	Beitan at	17.5			i
					1
					i
					+
					1
				7 (9)	1
					i
CALE: 1"=	PAGE	OF			

CY 050-12

START CARD NO.046935

- 1	2	START CARD NO.CZ 757
ROJECT NAME: TO PARISh NE	rough Gauil	
ELL INDENTIFICATION NO. MW		VONR 20E SEC. 10
LING METHOD: HSA 4.2		FT. FROM N/S SECTION LINE
RILLER: Viches w. Dolar		FT. FROM E/W SECTION LINE
RM: B File	DATUM:	
IGNATURE: Stother w Worken	WATER LEV	EL ELEVATION: 10.0
DNSULTING FIRM: BF I	INSTALLED:	: 8-11-92
EPRESENTATIVE: E. Techghing	A. DEVELOPED	1: 8-17-92
AS-BUILT	WELL DATA	FORMATION DESCRIPTION

_			TOTAL SECOND TOTAL
-			
7			
	Flugh mount	Menual del	Elevation AT 95.63'
	hel-flag 70 1'	21/201 (11/2)	CIS aggibal TXSTONC
		2",7',00C A.SCI	15 7051 Brown clay +5167 Some Five Sarch
- - - -	Silver sand (10-30) 7051		5 -8 Brown Fine savely sill The
			of -10' Biows Five Courses such + Five glavel, Traces'er
-1/0 -			1 21 2 - The Fill Course
		2"x16 for -	Juvel, Some Free Course
15-			
]20-		Be Tan 4T 17.0'	
] -			

CALE: 1"=____

PAGE ____ OF ____

START CARD NO.046935

LING METHOD: # S.A. 4. TRILLER: John W Dolo IRM: B SIGNATURE: John W Dolo DNSULTING FIRM: B REPRESENTATIVE: K. Tahsh.	25" an h'	LOCATION: TONR 30E SEC. 10 DISTANCE: FT. FROM N/S SECTION LINE FT. FROM E/W SECTION LINE DATUM: WATER LEVEL ELEVATION: 10 0' INSTALLED: 8 -1/- 92 DEVELOPED: 8 -13-72
AS-BUILT Thush mount me	WELL DATA	FORMATION DESCRIPTION Elevation +7 98,73
holiply 701' 5 silica sparb 706' (10-20)	2 'Accipse A	C-2" gravel I'-2 Brown silt, some clayy Some Five struct. 2-5 Brown Five Savels are Silt I clay 5-10 Brown Five to machine Sanct, course gravels, trace of silt 10 20 Brown Five to grais consider conacts to sevel, trace silt
CALE: 1"=	PAGE	OF

ECY 050-12

START CARD NO. 046 935

POJECT NAME: Toffenish Notional Cauxi	
LL INDENTIFICATION NO. 110-3	LOCATION: TION, RJOE SEC. 10
LLING METHOD: HSA 4.25"	DISTANCE: FT. FROM N/S SECTION LINE
RILLER: John w Dolgn	FT. FROM E/W-SECTION LINE
RM: B.+J.	DATUM:
GNATURE: John w D. Non	WATER LEVEL ELEVATION: 10.5
NSULTING FIRM: R. F.T.	INSTALLED: 3-11-92
PRESENTATIVE: K. Tahahiahi	DEVELOPED: 8-/3-92

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
Flush Mount	21/201 SC. A]	Efeverion pt 99,791
5 sanct TO 6 (10-10)	21/2016 -> 12:561	3 - Brown Ewert course
10	31×101pvc	G-15 Brown Five To Coursely gravel, some Five To Course Squel, Trace of grave C
15	Screen -	
Po	3" pre Exi 13070m. + 181	
		<u> </u>

:ALE: 1"=____

PAGE ____ OF ____

START CARD NO.CYCS 5

RILLER: John W Dolars SIGNATURE: Aoku W Dolars PROJECT NAME: John W Dolars SIGNATURE: Aoku W Dolars PROJECT NAME: BE I REPRESENTATIVE: K. Tahshis	25" I)	DISTANCE:	LEVATION: 10.5
AS-BUILT	WELL DATA		FORMATION DESCRIPTION
Thuck now of the land of the l	d's sipue.	12	1-15" asplied Tygavel 5"-12" Brown File Tolerasse Sund y gravel with sixt 1-14" Brown Glay To Flac To course gravel, some File To course squal Trace of sile
loars an			
CALE: 1"=	PAGE C)F	

CY 050-12

le Original and First Copy with partment of Ecology Cond Copy — Owner's Copy Chird Copy — Driller's Copy

WATER WELL REPORT STATE OF WASHINGTON

Application	No.	
Permit No.		

, OWNER: Name David Rome	Address Hov 20, Formenish, Wa.
2) LOCATION OF WELL: County Yaki ia	- 11 1/4 N/4 Sec + U T + U N, R - W.M.
earing and distance from section or subdivision corner	7 July 1, 11 July 1, 1
B) PROPOSED USE: Domestic 包 Industrial □ Munic	icipal (10) WELL LOG:
B) PROPOSED USE: Domestic ☑ Industrial ☐ Munic	
angulon Test wen Other	Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.
1) TYPE OF WORK: Owner's number of well (if more than one)	
사용하다 가장 하는 사용 사용 가장 하면 되고 있다면 하는 사람이 나는 사람이 나를 하는 것이 없다면 하는 것이 없다면 하는데 살아 없다면 하는데	ored Toposil
3 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	etted Cycrburgen Coarso gravel 10 16
	Send gravel A reter 118 1 22
Drilled	inches. Sand silt rayel 22 13
Drilled	and silt revel ster 55 7
CONSTRUCTION DETAILS:	3rcvol, send 37 34
Casing installed: 6 " Diam. from 1 ft. to 57	, 3ro-m elay and 54 37
Threaded Diam. from ft. to	
Welded 🖸	
Paufauntians:	
Perforations: Yes No E	
SIZE of perforations	
perforations from ft. to	
perforations from ft. to	
perforations from ft. to	ft.
Screens: Yes No DC	
Manufacturer's Name	
Type Model No	
Diam. Slot size from ft. to	[20] 이 10 N. A. B. (10 M. H.
Diam. Slot size from ft. to	Tt.
Gravel packed: Yes No X Size of gravel:	
Gravel placed from ft. to	ft.
Surface seal: yes 10 No To what depth? 20	ft.
Material used in seal	No C
Type of water? Depth of strata	
Method of sealing strata off	
DIIMP.	
Type: H.P.	
) WATER LEVELS: Land-surface elevation above mean sea level	ft. 27MgV or conc.
atic levelft. below top of well Dateft.	TEGION INFI
tesian pressure	
Artesian water is controlled by(Cap, valve, etc.)	
) WELL TESTS: Drawdown is amount water level is	s
lowered below static level	Work started
as a pump test made? Yes \(\subseteq \) No \(\subseteq \) If yes, by whom?ft. drawdown after	hrs. WELL DRILLER'S STATEMENT:
	This well was drilled under my jurisdiction and this report is
	true to the best of my knowledge and belief.
covery data (time taken as zero when pump turned off) (water	
measured from well top to water level) ime Water Level Time Water Level Time Water	NAME Tornon L. Rank
me water Level 1time water Level 1time water	(Person, nrm, or corporation) (Type or print)
	1 J. Lhtanu. ld. Yakıma, la. 9200.
Date of test	(Signed) Lernen J. Hank
iler test 50 gal./min. with ft. drawdown after	hrs. (Well Driller)
tesian flow g.p.m. Date	
mperature of water Was a chemical analysis made? Yes	No E License No

31.7 Start Card No. 034219

Second Copy—Owner's Copy	Start Card No. 034219 WASHINGTON Water Right Permit No.
) OWNER: Name Jim Rathbun	Address 751 Meyers Rd., Toppenish
(2) LOCATION OF WELL: County Yakima 2a) STREET ADDDRESS OF WELL (or nearest address) 751 Meyer	SW NW Sec 11 T 10 N. R 20 W.M.
(3) PROPOSED USE: Domestic Industrial Municipal DeWater Test Well Other	(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION Formation: Describe by color, character, size of material and structure, and show
(4) TYPE OF WORK: Owner's number of well (if more than one)	thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.
Abandoned New well Method: Dug Bored Cable Driven Reconditioned Rotary Method: Dug Driven Dri	MATERIAL FROM TO Topsoil 0 8
(5) DIMENSIONS: Diameter of well 6 inches.	Gravel & Silt & Sand 8 16 Gravel & Sand & Br. Clay 16 50
Drilled 50 feet. Depth of completed well 50 ft.	& Water
Casing installed: 6 Diam. from +1 ft. to 50 ft. Welded Diam. from ft. to ft. Diam. from ft. to ft. Diam. from ft. to ft. Perforations: Yes No X	
Type of perforations	
perforations fromft. toftft.	1 15 15 17 10 10 10 10 10 10 10 10 10 10 10 10 10
Screens: Yes No X	1/2 / 1/5
Manufacturer's Name Model No. Type Model No. Diam. Slot size from ft. to ft. Diam. Slot size from ft. to ft. Gravel packed: Yes No Size of gravel	0 = 1 1 1 1 1 1 1 1 1 1
Gravel placed fromft. toft. Surface seal: Yes No To what depth?ft. Material used in sealBentonite	
Did any strata contain unusable water? Yes No X Type of water? Depth of strata Method of sealing strata off	
7) PUMP: Manufacturer's Name	
(8) WATER LEVELS: Land-surface elevation above mean sea level	
9) WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? Yes No If yes, by whom?	Work started 7-13-90 19. Completed 7-13-90 19 WELL CONSTRUCTOR CERTIFICATION: I constructed and/or accept responsibility for construction of this well,
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) Time Water Level Time Water Level Time Water Level	and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief. NAME Water Wells Drilling INC. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Date of test	(Signed) (Signe

3

WATED WELL DEDORT	Start Card NoU33836	
WATER WELL REPORT		Ī
STATE OF WASHINGTON		
Water Right Pern	it No	

7(1)	OWNER: Name Delmar Bangs	Address 140 Germantown Rd., Topp	penish	
1	LOCATION OF WELL: County Yakima	SE _4 NW _4 Sec_ 111(20
(2)	STREET ADDDRESS OF WELL (or nearest address) 360 Germanto		N., R_4	<u>20</u> _w.m.
7(24)		Toppetitity wa joyto		
1(3)	PROPOSED USE: Domestic Industrial Municipal	(10) WELL LOG or ABANDONMENT PROCEDUR	RE DESCR	RIPTION
	☐ DeWater Test Well ☐ Other ☐	Formation: Describe by color, character, size of material an	d structure.	and show
(4)	TYPE OF WORK: Owner's number of well (if more than one)	thickness of aquifers and the kind and nature of the material in ea with at least one entry for each change of information.	ach stratum p	enetrated.
1	Abandoned New well X Method: Dug Bored		FROM	то
	Deepened Cable Driven	Topsoil	0	3
-		Large & Small Gravel, Brown Clay	3	8
(5)	inches.	& Sand Large & Small Gravel, Brown Clay,	-	
_	Drilled 50 feet. Depth of completed well 50 ft.	Sand & Water	8	50
(6)	CONSTRUCTION DETAILS:	Sand a water		
	Casing installed: 10 · Diam. from +1 tt. to 50 tt.			
	Welded X Diam. from ft. to ft.	YAKIMA INDIAN NATION		
	Threaded ft. toft.	PERMIT # 1992-5		
	Perforations: Yes X No Milla Waife			
	Type of perforator used Mills Knife		100	18 TX
	SIZE of perforations 3/8 in. by 4 in.			
	perforations from n. to n.			
	perforations fromft. toft.			
	perforations fromft. toft. Screens: Yes No X			
	Manufacturer's Name			
	Type Model No			
	DiamSlot sizefromft. toft.			
	DiamSlot sizefromft. toft.			
	Gravel packed: Yes NoX Size of gravel			100
	Gravel placed from ft. to ft.			
	Surface seal: Yes X No To what depth? 18 ft.			
1000	Material used in seal Bentonite Clay & Cement			
	Did any strata contain unusable water? Yes No X			
RESULTS.	Type of water?Depth of strata			
	Method of sealing strata off			1000
(7)	PUMP: Manufacturer's Name			
	Type:			
(8)	WATER LEVELS. Land-surface elevation		-	2 2 2
	Static level 9 tt. below top of well Date 4/4/92			
	Artesian pressurelbs. per square inch_Date			
	Artesian water is controlled by(Cap. valve. etc.))			
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 3/31/92	/92	. 19
(0)	Was a pump rest made? Yes No If yes, by whom?	WELL CONCERNATION		
	Yield: gal./min. with ft. drawdown after hrs.	WELL CONSTRUCTOR CERTIFICATION:		
	"	I constructed and/or accept responsibility for constructed and its compliance with all Washington well const	truction star	ndards.
	" " " " " " " " " " " " " " " " " " "	Materials used and the information reported above a knowledge and belief.	re true to n	ny best
1	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)			
	Time Water Level Time Water Level	NAME Water Wells Drilling, Inc.		
		(PERS 5 G AM ARTHRATION)	(TYPE OR P	RINT)
		Address Yakima, WA 98903		
	Date of test	(/ //)//	1425	
E	Bailer test gal. / min. with ft. drawdown after hrs.	(Signed) (WELL ORILLER)	1435	
	Airrest 300 gal. min. with stem set at 50 ft. for 1 hrs.	Contractor's		
7.1	ortesian nowq.p.m. Date 4/4/92	Registration No. WATERWD112QB Date 4/7/92	2	19
1	emperature of water 60 was a chemical analysis made? Yest NoX	4.05	400	
	-	(USE ADDITIONAL SHEETS IF NECESS	ARY)	23



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(1) OWNER: Name Del Monte Corporation

WATER WELL REPORT STATE OF WASHINGTON

Address



49 E. Third, Tooenish, WA 98948

Application No.

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) LOCATION OF WELL: County Yakima 14 SW 14 Sec. 11 T 10 N R 20 WM Bearing and distance from section or subdivision corner 3) PROPOSED USE: Domestic 🗆 Industrial 🗆 Municipal 🗆 (10) WELL LOG: Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation. Irrigation | Test Well | Other (4) TYPE OF WORK: Owner's number of well #1 MATERIAL New well ☐ Method: Dug ☐ Bored ☐ Deepened Cable Driven 🗆 Reconditioned Top Soil 0 6 Rotary 🖔 Jetted [5) DIMENSIONS: Diameter of weil inches. Sand and Gravel 18 Drilled 18 it. Depth of completed well 17 46) CONSTRUCTION DETAILS: Casing installed: 6 "Diam. from +3 ft. to 17 ft. Threaded 4"PVG Diam. from +1 ft. to 2 ft. 3' of 4" PVC Liner installed Welded [1 6" Drive Shoe utilized Perforations: Yes 🗆 No 🖔 Type of perforator used..... 2 Hours developing time SIZE of perforations in. by in. perforations from ft. to perforations from _____ ft. to ____ ft. perforations from _____ ft. to _____ ft. Screens: Yes X No [Manufacturer's Name...... Diam. Slot size from ft. to ft. Gravel packed: Yes No X Size of gravel: Gravel placed from _____ ft. to _____ ft. Surface seal: Yes X No To what depth? 2 ft.

Material used in seal Bentonite Did any strata contain unusable water? Yes □ No 🖔 Type of water?.... Depth of strata...... Method of sealing strata off...... (7) PUMP: Manufacturer's Name..... (8) WATER LEVELS: Land-surface elevation above mean sea level.... Static level 6 ft. below top of well Date 12/9/87 Artesian water is controlled by..... (Cap, valve, etc.) Drawdown is amount water level is lowered below static level 9) WELL TESTS: Work started 12/8 19.87 Completed 12/9 19.87 Vas a pump test made? Yes 🖸 · No 🔲 If yes, by whom?..... Yield: 45 gal./min. with ft. drawdown after WELL DRILLER'S STATEMENT: hrs. ., This well was drilled under my jurisdiction and this report is Estimated Airlift .. true to the best of my knowledge and belief. tecovery data (time taken as zero when pump turned off) (water level measured from well top to water level) NAME PONDEROSA DRILLING & DEVLOPMENT, INC.
(Person. drm. or corporation) (Type or print) Time Water Level | Time Water Level | Time Water Level Address E. 6010 BROADWAY, SPOKANE, WA 99212 [Signed] Louie Hanner (Well Driller) Date of test Bailer test......gal/min. with......ft. drawdown after......hrs. rtesian flow.......g.p.m. Date..... License No....1472 1472 Date 12/9 , 19 87 Temperature of water Was a chemical analysis made? Yes 🗌 No 🗍

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WATER WELL REPORT

Application	No.	
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STATE OF WASHINGTON Permit No. ... 49 E. Third, Toppenish, WA 98948 1) OWNER: Name Del Monte Corp. SW 1/4 SW 1/4 Sec 11 T 10 N R 20 WM LOCATION OF WELL: County Yakima earing and distance from section or subdivision corner (10) WELL LOG: 3) PROPOSED USE: Domestic | Industrial | Municipal | Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation. Irrigation ☐ Test Well ☒ Other 4) TYPE OF WORK: Owner's number of well 2
New well 4 Method: Dug MATERIAL Bored [Cable [Deepened Driven [Top Soil 6 Reconditioned [Rotary X Jetted 6 5) DIMENSIONS: Diameter of well Sand and Gravel 18 Drilled 18 ft. Depth of completed well 17 6) CONSTRUCTION DETAILS: Casing installed: 6 "Diam. from +3 ft. to 17 ft. 3' of 4" PVC Liner installed 4"PVC Diam. from +1 ft. to 2 ft. " Diam. from ft. to ft. 6" Drive Shoe utilized Perforations: Yes | No | Type of perforator used..... 31/3 Hours Developing time SIZE of perforations in. by perforations from ft. to ft. perforations from ft. to ft. Screens: Yes X No [..... Model No.... Diam. 4 Slot size 20 from 2 ft. to 17 ft. Diam. Slot size from ft. to ft. Gravel packed: Yes No No Size of gravel: Gravel placed from _____ ft. to _____ ft. Surface seal: Yes X No D To what depth? 2

Material used in seal Bentonite Did any strata contain unusable water? Yes ☐ No ☐ Type of water?.... Depth of strata..... Method of sealing strata off..... 7) PUMP: Manufacturer's Name...... Type: 8) WATER LEVELS: Land-surface elevation above mean sea level.... tatic level 6 ft. below top of well Date 12/10/87 Artesian water is controlled by.... (Cap, valve, etc.) Drawdown is amount water level is lowered below static level 9) WELL TESTS: 12/10 12/9 19. Vas a pump test made? Yes \(\square\) No \(\square\) If yes, by whom?..... WELL DRILLER'S STATEMENT: field: 45 gal./min. with ft. drawdown after .. This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Estimated Airlift tecovery data (time taken as zero when pump turned off) (water level measured from well top to water level) NAME PONDEROSA DRILLING & DEVELOPMENT, INC. Water Level | Time Water Level | Time (Person, firm, or corporation) (Type or print) Address E. 6010 Broadway, Spokane, WA 99212 [Signed] LouieHanner Date of test (Well Driller) Bailer test. gal/min. with ft. drawdown after hrs.

License No. 1472 Date Dec. 10 1987

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WATER WELL REPORT STATE OF WASHINGTON

A	рриса	tion	No.	
P	ermit	No.		

3

(1) OWNER: Name Del Monte Corporation	Address E. 49 Third, Toppenish, WA 98948
(3) PROPOSED USE: Domestic Industrial Municipal	
Irrigation	Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.
New well Method: Dug Bored Deepened Cable Driven	MATERIAL FROM TO
Reconditioned Rotary K Jetted	
(5) DIMENSIONS: Diameter of well 6 inches Drilled 18 Depth of completed well 17	
(6) CONSTRUCTION DETAILS:	
Casing installed: Threaded Welded Threaded	
Perforations: Yes No 🛭 Type of perforator used	생물을 받았다. 얼마나
SIZE of perforations in. by in. by perforations from the ft. to the fermions from the fermions fr	ft.
perforations from ft. to	ft.
Screens: Yes X No C	
Type PVC Model No Diam 4 Slot size 20 from 2 ft. to 17 Diam Slot size from ft. to	ft.
Gravel placed from ft. to	
Surface seal: Yes X No To what depth? 2 Material used in seal Bentonite	rt.
Did any strata contain unusable water? Yes No. Type of water?	
(7) PUMP: Manufacturer's Name	
(8) WATER LEVELS: Land-surface elevation above mean sea level	
Static level 6	
Artesian water is controlled by (Cap, valve, etc.)	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? Yes \(\subseteq \) No \(\subseteq \) If yes, by whom?	Work started 12/10 19 87 Completed 12/10 19 87
field: 45 gal./min. with ft. drawdown after hr	WELL DRILLER'S STATEMENT:
" Estimated Airlift " "	This well was drilled under my jurisdiction and this report is
Recovery data (time taken as zero when pump turned off) (water lever measured from well top to water level) Time Water Level Time Water Level Time Water Level	NAME PONDEROSA DRILLING & DEVELOPMENT, INC.
	Address E. 6010 Broadway, Spokane, WA 99212
Date of test	S. [Signed] Louie Hanner (Well Driller)
rtesian flow g.p.m. Date Vas a chemical analysis made? Yes No	

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WATER WELL REPORT

13

Application No.

STATE OF WASHINGTON Permit No. ... (1) OWNER: Name Del Monte Corporation Address 49 East Third Ave, Toppenish, WA 98948) LOCATION OF WELL: County Yakima _ SW 1/2 SW 1/2 Sec 11 T 10 N R 20 WM Bearing and distance from section or subdivision corner (3) PROPOSED USE: Domestic | Industrial | Municipal | (10) WELL LOG: Irrigation | Test Well | Other Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation. (4) TYPE OF WORK: Owner's number of well #4

New well Method: Dug Bored

Driven | MATERIAL Cable Deepened Driven 🗆 Rotary A Jetted Top Soil Reconditioned 6 (5) DIMENSIONS: Diameter of well 6 Sand And Gravel 18 Drilled 18 ft. Depth of completed well 17 ft. (6) CONSTRUCTION DETAILS: Casing installed: 6 "Diam from +3 ft. to 17 ft. Threaded 4"PVG Diam. from +1 ft. to 2 ft.

Welded Diam. from ft. to ft. Perforations: Yes 🗆 No 🖔 3' of 4" PVC Liner installed Type of perforator used..... 6" Drive Shoe utilized SIZE of perforations in. by in. perforations from _____ ft. to _____ ft. 4 Hours developing time perforations from _____ ft. to ____ ft. perforations from _____ ft. to _____ ft. Screens: Yes X No [Manufacturer's Name.

Type. PVC Model No. Diam. 4 Slot size 20 from 2 ft. to 17 ft. Diam. Slot size from ft. to ft. Gravel packed: Yes O No X Size of gravel: Gravei placed from _____ ft. to _____ ft. Surface seal: Yes No To what depth? 2 ft.

Material used in seal Bentonite Did any strata contain unusable water? Yes \(\) No \(\) Type of water?..... Depth of strata..... Method of sealing strata off..... 7) PUMP: Manufacturer's Name. 8) WATER LEVELS: Land-surface elevation above mean sea level.... tatic level 6 ft. below top of well Date 12/11/87 Artesian water is controlled by.....(Cap, valve, etc.) 9) WELL TESTS: Drawdown is amount water level is lowered below static level Work started 12/11 19.87 Completed 12/11 19.87 Vas a pump test made? Yes \(\simega \) No \(\simega \) If yes, by whom?..... ield: 45 gal./min. with ft. drawdown after WELL DRILLER'S STATEMENT: hrs. This well was drilled under my jurisdiction and this report is ESTIMATED AIRLIFT true to the best of my knowledge and belief. ecovery data (time taken as zero when pump turned off) (water level measured from well top to water level) NAME PONDEROSA DRILLING & DEVELOPMENT, INC. Time Water Level | Time Water Level | Time Water Level (Person, firm, or corporation) (Type or print) Address E. 6010 Broadway, Spokane, WA 99212 [Signed] Louis Hanner (Well Driller) ailer test.........gal/min. with.......ft. drawdown after.........hrs. rtesian flow g.p.m. Date

emperature of water Was a chemical analysis made? Yes No 🗆

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License No. 1472 Date Dec 11 , 19 87

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